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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM005B	Application No.: na
	Applicant: Rosenberg	
	Filing Date: May 9, 2001	Group: 2675

1000 U.S. PTO
09/852401

U.S. Patent Documents

Examiner Initial		Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
CAN	*	2,906,179	09/29/59	Bower			
	*	3,490,059	01/13/70	Paulsen et al.			
	*	3,531,868	10/1970	Stevenson			
	*	3,795,150	03/05/74	Eckhardt			
	*	3,875,488	04/01/75	Crocker et al.			
	*	3,890,958	6/1975	Fister et al.			
	*	3,919,691	11/11/75	Noll			
	*	3,944,798	03/16/76	Eaton			
	*	4,148,014	04/03/79	Burson			
	*	4,216,467	08/05/80	Colston			
	*	4,398,889	08/16/83	Lam et al.			
	*	4,436,188	03/13/84	Jones			
	*	4,448,083	05/15/84	Hayashi			
	*	4,477,043	10/16/84	Repperger			
	*	4,477,973	10/1984	Davies			
	*	4,550,221	10/1985	Mabusth			
	*	4,550,617	11/1985	Fraignier et al.			
	*	4,571,834	2/1986	Fraser et al.			
	*	4,593,570	6/1986	Davies			
	*	4,601,206	7/1986	Watson			
	*	4,604,016	08/05/86	Joyce			
	*	4,632,341	12/1986	Repperger et al.			
	*	4,638,798	1/1987	Shelden et al.			
	*	4,653,011	3/1987	Iwano			
	*	4,654,648	3/1987	Herrington et al.			
	*	4,676,002	06/30/87	Slocum			
	*	4,679,331	7/1987	Koontz			
	*	4,688,983	08/25/87	Lindbom			
	*	4,689,449	08/25/87	Rosen			
	*	4,703,443	10/27/87	Moriyasu			

Examiner: CANH NGUYEN	Date Considered: 12/31/01
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U.S. Patent Documents

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CND	*	4,704,909	11/10/87	Grahn et al.			
	*	4,750,487	06/14/88	Zanetti			
	*	4,769,763	09/06/88	Trieb et al.			
	*	4,775,289	10/04/88	Kazerooni			
	*	4,782,327	11/01/88	Kley et al.			
	*	4,787,051	11/22/88	Olson			
	*	4,791,934	12/20/88	Brunnett			
	*	4,798,919	01/17/89	Miessler et al.			
	*	4,800,721	01/31/89	Cemenska et al.			
	*	4,803,413	02/07/89	Kendig et al.			
	*	4,811,608	03/14/89	Hilton			
	*	4,819,195	04/04/89	Bell et al.			
	*	4,839,838	06/13/89	LaBiche et al.			
	*	4,849,692	07/18/89	Blood			
	*	4,861,269	08/29/89	Meenen, Jr.			
	*	4,879,556	11/07/89	Duimel			
	*	4,888,877	12/26/89	Enderle et al.			
	*	4,891,889	01/09/90	Tomelleri			
	*	4,907,970	03/13/90	Meenen, Jr.			
	*	4,907,973	03/13/90	Hon			
	*	4,942,545	07/17/90	Sapia			
	*	4,945,305	07/31/90	Blood			
	*	4,945,501	07/31/90	Bell et al.			
	*	4,949,119	08/14/90	Moncrief, et al.			
	*	4,961,138	10/02/90	Gorniak			
	*	4,961,267	10/09/90	Herzog			
	*	4,962,448	10/09/90	DeMaio, et al.			
	*	4,962,591	10/16/90	Zeller et al.			
	*	4,982,504	01/08/91	Söderberg et al.			
	*	4,982,618	01/08/91	Culver			

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U.S. Patent Documents

Examiner Initial		Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
CAN	*	4,983,786	01/08/91	Stevens et al.			
	*	5,007,085	04/09/91	Greanias et al.			
	*	5,007,300	04/16/91	Siva			
	*	5,040,306	08/20/91	McMurtry et al.			
	*	5,044,956	09/03/91	Behensky et al.			
	*	5,050,608	09/24/91	Watanabe et al.			
	*	5,072,361	12/10/91	Davis et al.			
	*	5,088,046	02/11/92	McMurtry			
	*	5,088,055	02/11/92	Oyama			
	*	5,095,303	03/10/92	Clark et al.			
	*	5,103,404	04/07/92	McIntosh			
	*	5,107,080	04/21/92	Rosen			
	*	5,116,051	05/26/92	Moncrief et al.			
	*	5,116,180	05/26/92	Fung et al.			
	*	5,128,671	07/07/92	Thomas, Jr.			
	*	5,131,844	07/21/92	Marinaccio et al.			
	*	5,132,672	07/21/92	Clark			
	*	5,139,261	08/18/92	Openiano			
	*	5,142,506	08/25/92	Edwards			
	*	5,142,931	09/01/92	Menahem			
	*	5,143,505	09/01/92	Burdea et al.			
	*	5,148,377	09/15/92	McDonald			
	*	5,156,363	10/20/92	Cizewski et al.			
	*	5,178,012	01/12/93	Culp			
	*	5,181,181	01/19/93	Glynn			
	*	5,182,557	1/1993	Lang			
	*	5,184,306	02/02/93	Erdman et al.			
	*	5,184,319	02/02/93	Kramer			
	*	5,185,561	02/09/93	Good et al.			
	*	5,187,874	02/23/93	Takahashi et al.			

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U.S. Patent Documents

Examiner Initial		Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
CDN	*	5,189,806	03/02/93	McMurtry et al.			
	*	5,193,963	03/16/93	McAfee et al.			
	*	5,197,003	03/23/93	Moncrief, et al.			
	*	5,204,824	04/20/93	Fujimaki			
	*	5,209,131	05/11/93	Baxter			
	*	5,216,948	06/30/92	Mitchell et al.			
	*	5,220,260	06/15/93	Schuler			
	*	5,223,776	06/29/93	Radke et al.			
	*	5,228,356	07/20/93	Chuang			
	*	5,230,623	07/27/93	Guthrie et al.			
	*	5,243,266	09/07/93	Kasagami et al.			
	*	5,251,127	10/05/93	Raab			
	*	5,251,156	10/05/93	Heier et al.			
	*	5,259,120	11/09/93	Chapman et al.			
	*	5,259,894	11/09/93	Sampson			
	*	5,262,777	11/16/93	Low et al.			
	*	5,264,768	11/23/93	Gregory et al.			
	*	5,275,565	01/04/94	Moncrief			
	*	5,289,273	02/22/94	Lang			
	*	5,296,846	03/22/94	Ledley			
	*	5,297,057	03/22/94	Kramer et al.			
	*	5,327,790	07/12/94	Levin et al.			
	*	5,351,692	10/1994	Dow et al.			
	*	5,354,162	10/1994	Burdea et al.			
	*	5,379,663	01/10/95	Hara			
	*	5,384,460	1/1995	Tseng			
	*	5,389,865	02/14/95	Jacobus et al.			
	*	5,396,266	03/07/95	Brimhall			
	*	5,397,323	03/14/95	Taylor et al.			
	*	5,402,582	04/04/95	Raab			

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CDN	*	5,405,152	04/11/95	Katanics et al.			
	*	5,412,880	05/09/95	Raab			
	*	5,414,337	05/09/95	Schuler			
	*	5,417,696	05/23/95	Kashuba et al.			
	*	5,429,140	7/1995	Burdea et al.			
	*	5,436,542	07/25/95	Petelin et al.			
	*	5,436,640	07/25/95	Reeves			
	*	5,445,166	08/29/95	Taylor			
	*	5,459,382	10/17/95	Jacobus et al.			
	*	5,467,763	11/21/95	McMahon et al.			
	*	5,473,235	12/05/95	Lance et al.			
	*	5,491,477	02/13/96	Clark et al.			
	*	5,512,919	04/30/96	Araki			
	*	5,513,100	04/30/96	Parker et al.			
	*	5,547,383	08/20/96	Yamaguchi			
	*	5,576,727	11/19/96	Rosenberg et al.			
	*	5,587,937	12/24/96	Massie et al.			
	*	5,589,828	12/31/96	Armstrong			
	*	5,589,854	12/31/96	Tsai			
	*	5,591,924	01/07/97	Hilton			
	*	5,623,582	04/22/97	Rosenberg			
	*	5,625,576	04/29/97	Massie et al.			
	*	5,629,594 *	05/13/97	Jacobus et al.			
	*	5,642,469	06/24/97	Hannaford et al.			
	*	5,643,087	07/01/97	Marcus et al.			
	*	5,666,138	09/09/97	Culver			
	*	5,709,219	01/20/98	Chen et al.			
	*	5,742,278	04/21/98	Chen et al.			
	*	5,769,640	06/23/98	Jacobus et al.			
	*	5,821,920	10/13/98	Rosenberg et al.			

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Foreign Patent or Published Foreign Patent Application

Examiner Initial		No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation	
								Yes	No
CYN	*		WO9426167	24.11.94	PCT				
	*		WO9532459	30.11.95	PCT				
	*		4-34610	31.5.90	Japan				
	*		WO9510080	13.04.95	PCT				
	*		WO9520788	03.08.95	PCT				
	*		WO9520877	8/1995	PCT				
	*		WO9520787	8/1995	PCT				
	*		WO9616397	5/1996	PCT				
	*		WO9622591	7/1996	PCT				
	*		225411	10/1992	UK				

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
CDN	*	Adelstein B. et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, pp. 1-24.
	*	Buttolo, P. et al., "Pen-Based Force Display for Precision Manipulation in Virtual Environments," IEEE 0-8186-7084, 1995, pp. 217-224.
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	*	Snow, E. et al., "Compact Force-Reflecting Hand Controller," NASA Contract No. NAS 7-918, 1991.
↓	*	McAfee, D. et al., "Teleoperator Subsystem, Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, 1988.
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
CAN	*	Schmult, B. et al., "Application Areas for a Force-feedback Joystick," DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 47-54.
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
CAN	*	Batter, J. et al., "Grove-1: A Computer Display to the Sense of Feel," Proc. IFIP Congress, 1971.
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
CM	A	3,775,865	12/4/73	Rowan	35	17	7/24/72
	B	4,360,345	11/23/82	Hon	434	262	7/14/80
	C	4,642,055	2/10/87	Saliterman	434	268	6/24/85
	D	4,879,668	11/7/89	Cline et al.	364	522	12/19/86
	E	5,149,270	9/22/92	McKeown	434	262	10/29/90
	F	5,295,694	3/22/94	Levin	273	447	11/18/92
	G	5,403,191	4/4/95	Tuason	434	262	10/28/93
	H	5,609,485	3/11/97	Bergman et al.	434	262	10/3/94
	I	5,704,791	1/6/98	Gillio	434	262	7/11/96
	J	5,920,319	7/6/99	Vining et al.	345	420	2/25/97
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Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	No
CM	L	WO91/06935	16 May 91	PCT	-	-	x	
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
CM	R	Merril, J. et al., "Cyber Surgery: Cutting Costs, Sewing Benefits," Virtual Reality Special Report, 1994, pp. 39, 40, 42.
	S	Cover, S. et al., "Interactively Deformable Models for Surgery Simulation," IEEE Computer Graphics & Applications, 1993, pp. 68-75.
	T	Merril, J. et al., "Virtual Reality for Trade Shows and Individual Physician Training," Medical Applications, 1994, pp. 40-44.
Examiner: CHANH NGUYEN		Date Considered: 05/02/02

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM005B	Application No.: 09/852,401
	Applicant: Louis B. Rosenberg	
	Filing Date: May 9, 2001	Group: 2675

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
	A						
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
CM	R	Merril, J. et al., "Surgical Simulation Using Virtual Reality Technology: Design, Implementation, and Implications," Surgical Technology International III, pp. 53-60.
↓	S	Hon, D., "Ixion's Realistic Medical Simulations," Virtual Reality World, 1994, pp. 58-62.
	T	
Examiner: CHANH NGUYEN		Date Considered: 12/31/01

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